TECHNICAL DATA SHEET	PE3W02446

Configuration

- Connector 1: N Male
- Connector 2: N Male Right Angle
- Cable Type: LMR-400-UF
- Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- TPE Jacket

LMR-400-UF

JACKET
SHIELD
OUTER CONDUCTOR
DIELECTRIC
STRANDED CENTER CONDUCTOR

0.405 Ø [6.1]
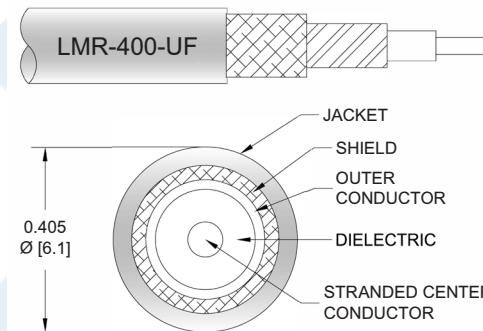
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W02446 type N male to type N male right angle cable using LMR-400-UF coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-UF coax. The PE3W02446 type N male to type N male cable assembly operates to 6 GHz. The right angle type N interface on the LMR-400-UF cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male to N Male Right Angle Low loss Cable Using LMR-400-UF Coax PE3W02446

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com

© 2020 Pasternack Enterprises All Rights Reserved   PE3W02446 REV 1.0   1

N Male to N Male Right Angle Low loss Cable Using LMR-400-UF Coax

TECHNICAL DATA SHEET	PE3W02446

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
Group Delay		1.2 [3.94]		ns/ft [ns/m]
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		1.07 [3.51]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ω/1000ft [Ω/Km]
Jacket Spark			8,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
PE3W02446	Custom Lengths Available	Insertion Loss (Typ.)	0.02	0.03	0.05	0.08	0.13	dB/ft	
			0.07	0.1	0.17	0.27	0.43	dB/m	
PE3W02446-12	12 inch	Insertion Loss (Typ.)	0.27	0.28	0.3	0.33	0.38	dB	0.297
PE3W02446-36	36 inch	Insertion Loss (Typ.)	0.31	0.34	0.4	0.49	0.64	dB	0.471
PE3W02446-60	60 inch	Insertion Loss (Typ.)	0.35	0.4	0.5	0.65	0.9	dB	0.645
PE3W02446-120	120 inch	Insertion Loss (Typ.)	0.45	0.55	0.75	1.05	1.55	dB	1.08
PE3W02446-300	300 inch	Insertion Loss (Typ.)	0.75	1	1.5	2.25	3.5	dB	2.385

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.15 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.297 pounds
Additional Weight per Inch:	0.00725 pounds

Mechanical Specifications

Cable Assembly

Weight	0.297 lbs [134.72 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male to N Male Right Angle Low loss Cable Using LMR-400-UF Coax PE3W02446

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com

PE3W02446 REV 1.0

N Male to N Male Right Angle Low loss Cable Using LMR-400-UF Coax

TECHNICAL DATA SHEET	PE3W02446

Cable

Cable Type	LMR-400-UF
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	TPE, Black
Jacket Diameter	0.405 in [10.29 mm]
One Time Minimum Bend Radius	1 in [25.4 mm]
Repeated Minimum Bend Radius	4 in [101.6 mm]
Bending Moment	0.38 lbs-ft [0.52 N-m]
Flat Plate Crush	20 lbs/in [0.36 Kg/mm]
Tensile Strength	160 lbs [72.57 Kg]

Connectors

Description	Connector 1	Connector 2
Type	N Male Threaded	N Male Right Angle Threaded
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	150 µin minimum	
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	150 µin minimum	
Hex Size	13/16 inch	

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male to N Male Right Angle Low loss Cable Using LMR-400-UF Coax PE3W02446

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com

© 2020 Pasternack Enterprises All Rights Reserved   PE3W02446 REV 1.0   3

N Male to N Male Right Angle Low loss
Cable Using LMR-400-UF Coax

TECHNICAL DATA SHEET	PE3W02446

Compliance Certifications (see product page for current document)

Plotted and Other Data
Notes:

How to Order

Part Number Configuration: **PE3W02446** - **xx** **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3W02446-12 = 12 inches long cable
PE3W02446-100cm = 100 cm long cable

N Male to N Male Right Angle Low loss Cable Using LMR-400-UF Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male to N Male Right Angle Low loss Cable Using LMR-400-UF Coax PE3W02446

URL: https://www.pasternack.com/n-male-to-n-male-low-loss-cable-using-lmr-400-uf-pe3w02446-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com

© 2020 Pasternack Enterprises All Rights Reserved   PE3W02446 REV 1.0   4

PE3W02446 CAD Drawing
N Male to N Male Right Angle Low loss Cable Using LMR-400-UF Coax

18mm HEX

N MALE RIGHT ANGLE CONNECTOR

LENGTH SEE NOTE 3

WWW.PASTERNACK.COM
PEXXXXXX-XX

LABEL SEE NOTE 1

LMR-400-UF COAX CABLE

2X HEAT SHRINK

13/16 HEX

N MALE CONNECTOR

REVISION

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	11/10/2023	KGLEBOVA	AGANWANI
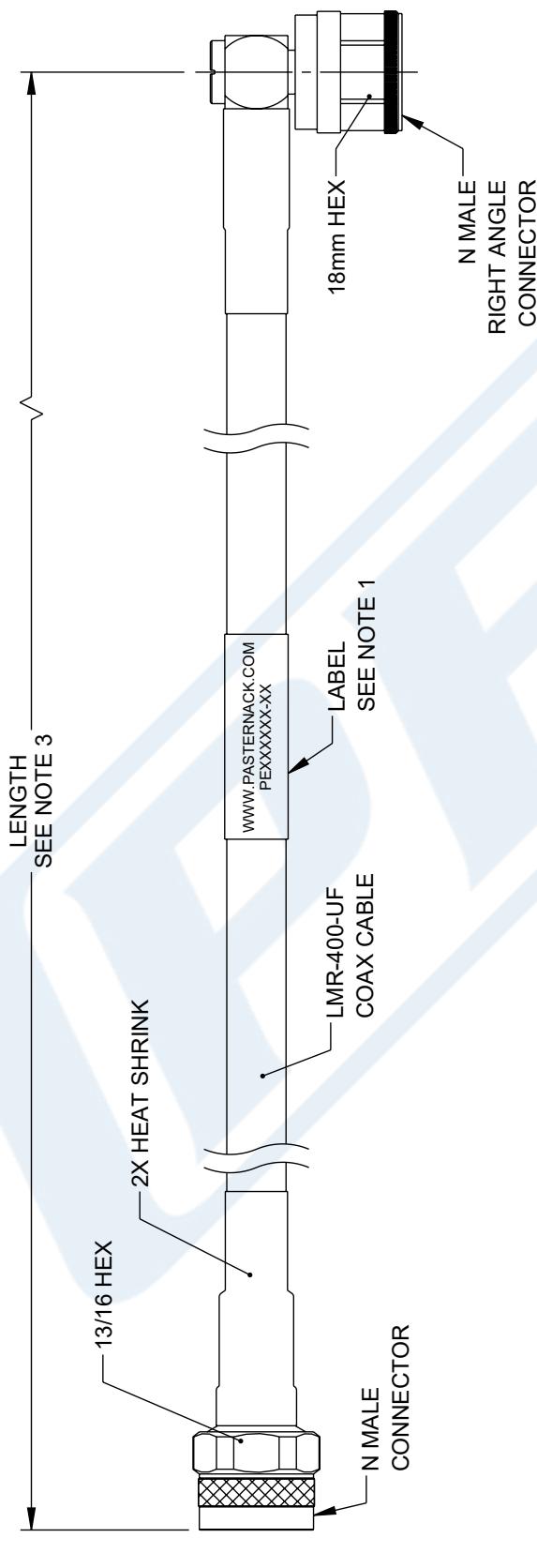
NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.

2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

PE an INFINITE® brand PASTERNACK®

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION: N MALE TO N MALE RIGHT ANGLE LOW LOSS CABLE USING LMR-400-UF COAX

SIZE	CAGE CODE	DRAWN BY		
A	53919	KGLEBOVA		

ITEM NO. PE3W02446

REV A

PE3W02446 REV 1.0

PE DS Rev-D4 Asize